

**§ 98.151 Reporting threshold.**

You must report GHG emissions under this subpart if your facility contains an HCFC-22 production or HFC-23 destruction process and the facility meets the requirements of either § 98.2(a)(1) or (a)(2).

**§ 98.152 GHGs to report.**

(a) You must report under subpart C of this part (General Stationary Fuel Combustion Sources) the emissions of CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O from each stationary combustion unit following the requirements of subpart C.

(b) You must report HFC-23 emissions from HCFC-22 production processes and HFC-23 destruction processes.

**§ 98.153 Calculating GHG emissions.**

(a) The mass of HFC-23 generated from each HCFC-22 production process shall be estimated by using one of two methods, as applicable:

(1) Where the mass flow of the combined stream of HFC-23 and another reaction product (e.g., HCl) is measured, multiply the weekly (or more frequent) HFC-23 concentration measurement (which may be the average of more frequent concentration measurements) by the weekly (or more frequent) mass flow of the combined stream of HFC-23 and the other product. To estimate annual HFC-23 production, sum the weekly (or more frequent) estimates of the quantities of HFC-23 produced over the year. This calculation is summarized in Equation O-1 of this section:

$$G_{23} = \sum_{p=1}^n c_{23} * F_p * 10^{-3} \quad (\text{Eq. O-1})$$

Where:

$G_{23}$  = Mass of HFC-23 generated annually (metric tons).

$c_{23}$  = Fraction HFC-23 by weight in HFC-23/other product stream.

$F_p$  = Mass flow of HFC-23/other product stream during the period p (kg).

p = Period over which mass flows and concentrations are measured.

n = Number of concentration and flow measurement periods for the year.

$10^{-3}$  = Conversion factor from kilograms to metric tons.

(2) Where the mass of only a reaction product other than HFC-23 (either

HCFC-22 or HCl) is measured, multiply the ratio of the weekly (or more frequent) measurement of the HFC-23 concentration and the weekly (or more frequent) measurement of the other product concentration by the weekly (or more frequent) mass produced of the other product. To estimate annual HFC-23 production, sum the weekly (or more frequent) estimates of the quantities of HFC-23 produced over the year. This calculation is summarized in Equation O-2 of this section, assuming that the other product is HCFC-22. If the other product is HCl, HCl may be substituted for HCFC-22 in Equations O-2 and O-3 of this section.

$$G_{23} = \sum_{p=1}^n \left( \frac{c_{23}}{c_{22}} \right) * P_{22} * 10^{-3} \quad (\text{Eq. O-2})$$

Where:

$G_{23}$  = Mass of HFC-23 generated annually (metric tons).

$c_{23}$  = Fraction HFC-23 by weight in HCFC-22/HFC-23 stream.

$c_{22}$  = Fraction HCFC-22 by weight in HCFC-22/HFC-23 stream.

$P_{22}$  = Mass of HCFC-22 produced over the period p (kg), calculated using Equation O-3 of this section.

p = Period over which masses and concentrations are measured.

n = Number of concentration and mass measurement periods for the year.

$10^{-3}$  = Conversion factor from kilograms to metric tons.

(b) The mass of HCFC-22 produced over the period p shall be estimated by using Equation O-3 of this section:

$$P_{22} = LF * (O_{22} - U_{22}) \quad (\text{Eq. O-3})$$

Where:

$P_{22}$  = Mass of HCFC-22 produced over the period p (kg).

$O_{22}$  = mass of HCFC-22 that is measured coming out of the Production process over the period p (kg).

$U_{22}$  = Mass of used HCFC-22 that is added to the production process upstream of the output measurement over the period p (kg).

LF = Factor to account for the loss of HCFC-22 upstream of the measurement. The value for LF shall be determined pursuant to § 98.154(e).

(c) For HCFC-22 production facilities that do not use a destruction device or that have a destruction device that is not directly connected to the HCFC-22